

U.S. CORDI & MIDDETIC SURVEY LIBRARY AND ARCHIVES

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DEPARTMENT OF C	OMMERCE
U.S. COAST AND GEODET!	C SURVEY
R. S. PATTON, DIREC	CTOR
SCRIPTIVE	REP(

DESCRIPTIVE REPORT
Hydrographic Sheet No. 2
•
StateTexas
LOCALITY
The left of Corpus Christi, Bay
Western Part
·
193 4
CHIEF OF PARTY
Earl O. Heaton

U.S. GOVERNMENT PRINTING OFFICE: 193

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 2 5612

REGISTER NO.

State	Texas 🗸			t	FA	<u></u>
General	. locality	Corpus	Christi Ba	<i>y</i> .	Large	e) v
Localit	y Western po	rt of Co	rpus Chris	ti Bay &	Corpus C	hristi Eo
Scale1:	10,000 🗸	. Date o	f survey.	arch to	July	, 19 34 /
	Project:					
Chief o	of Party Ear	0. Heat	on, Lieut.	<u></u>		
Surveye	ed by J.	L. Hale,	Observer &	W. R. H	elm, Obse	rver
Protrac	cted by War	ren L. Mo	ore			
Soundir	ngs penciled	by War	ren L. Moo	re		
Soundir	ngs in faire	r feet 🗸	<i>.</i>			
Plane (of reference	TIXW /	· .			
Subdiv	ision of wir	e dragged	areas by			
Inked h	by Hou	usde	Miss H.V.	Benneh	۷	
Verifie	ed by I	Evan	<i>I</i>		Waw 16	1033
Instruc	ctions dated	Nov. 5,1	9 3 2 & Supp	. inst.	Mar. 5	, 19 ³⁴
Remarks	s:		· · · · · · · · · · · · · · · · · · ·			·
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Hydrographic Sheet Number 2 and the ac-companying records have been inspected and are approved.

Earl O. Heaton, Chief of Party, C.& G.S.

DESCRIPTIVE REPORT TO ACCOMPANY HYDRO. SHEET NO. 2 WESTERN PART OF CORPUS CHRISTI BAY

Date of Instructions:

Instructions for this work were dated Nov. 5, 1932, with supplemental instructions dated Nov. 16, 1933 and March 5, 1934 (Project HT-118).

Survey Methods:

Most of the sounding for this sheet was done from a launch, using a pole graduated in feet and having a thin perforated plate about 6" in diameter on the bottom to prevent its sinking in soft mud. For depths of about 10 ft. and \checkmark over a lead line was used. For inshore work the pole was used from a skiff propelled by an outboard motor.

No sounding was done in the Corpus Christi Ship Channel east of the breakwater since the U. S. Engineers maintain this part of it at a minimum

depth by dredging.

Discrepancies:

There are frequent notations in red in the record books for this sheet of "decrease in speed apparently not noted" or "increase in speed apparently not noted". This explanation was used wherever a spacing for a continuous line could not be made to check all positions within 10 seconds of the recorded time. This notation was probably used in many places where there was not an omission in recording but changes of speed actually occured without the recorder's knowledge. The launch Bird Island was very unsatisfactory as a hydrographic launch because it was almost impossible to operate it at a constant speed. The record books show many places where one of the motors failed to perform. Another possible cause for an omission in moting change of speed may be because the engineer failed to notify the recorder when changes were made. -

The estimation of distances by eye on this sheet, especially from the ends of lines to the breakwater, was uniformly bad and appeared to bear out the principle that distances over water are usually estimated short of what

they actually are.

The position numbers (green B day) of the soundings taken at the channel beacons were omitted on the smooth sheet because the beacons were plotted by ._ triangulation.

Postions 40 C & 41 C (green) and 59D thru 63D (green) and their included soundings plotted off the north edge of this sheet but were plotted on Sheet 3.

"Front" was plotted on a temporary offset to this sheet in order to locate positions 15K and 21K (red). "Shaft" was plotted on a temporary offset to this sheet in order to locate positions 2J and 4J (green) and 3M and 5M (red) on the insert for this sheet. Two or three other positions were plotted on the insert and transferred to the main sheet and vice versa.

There was some discrepancy in places between the recorded time and course and the plotted time and course on lines 13a to 27a (blue, skiff) and 1b to 27b (blue, skiff). The hydrographer in charge reported that the heavy surf at the entrance to Nueces Bay was responsible for this.

The day beacons on the south side of the Corpus Christi Ship Channel are dolphins made of 3 piles fastened together with wire rope and surmounted by a 1 x 8 x 36 in. board giving the number. The bare height for these dolphins and all other exposed piles are shown on this sheet above MLXW.

The soundings on line 20K to 21K (red) were spaced evenly from 20K to the drawbridge and from the drawbridge to 21K because the time noted for passing

under the bridge didn't check its location.

There was some conflict between the soundings in the ship channel on lines 18K to 20K (red) and 28K to 29K (red). The shoaler soundings were used here. The Sags. omitted are now plotted. I.S. E.
On line 58F (red) to 70F, (especially the eastern portion of this line),

On line 58F (red) to 70F, (especially the eastern portion of this line), there were some unaccountable errors encountered when it was attempted to check the locations of the day beacons on the south side of the channel from this line. However, the depths in this area are not seriously affected because of the flat bottom. The locations of the day beacons should be alright because they were made later and all have a check angle in addition to the three-point fix. It is possible that one sextant used on the faulty line was out of adjustment.

The 18 ft. sounding recorded just before 29D (red) was changed to 13 ft. because the surrounding depths here (110 meters SW of triangulation station RED) gave no indication of a deep hole. It is thought that the quick change here from sounding pole to lead line might have caused a 5 ft. error in reading the depth.

The topographer who located topo signal "Break" apparently used the wrong latitude cut in pricking his point. This sheet was protracted using the topo location of "Break" which is about 3 meters N by W of the subsequently computed position of "Break". Inspection of the 37 hydrographic positions on this sheet using the true triangulation position of "Break" was made and it was found that the comparative displacement was so unimportant that they were not replotted.

Dangers:

There is a shoal located at Lat. 27° 48.46' and Long. 97° 21.40' with a least depth of 4 ft. at MLKW between positions 9 and 10 K (red).

A shoal extending out from the breakwater to enclose topo. signal "Day". This is a part of the spoil dump on the south side of the Corpus Christi Ship Channel which extends entirely across this sheet. The least depth over the outlying part of this shoal is $3\frac{1}{2}$ ft. at MLXW between 48 and 49 F (red) in Lat. 27° 48.45' and Long. 97° 22.95'.

A shoal extending out from the breakwater to enclose Corpus Christi Bn.
The least depth in the outlying part of this shoal is a depth of 6 ft. at MLXW at Lat. 270 47.45 and Long. 970 22.7 between 3D (red) and 4D (red).

Another shoal is developed in the area extending from 27° 47.2' and 97° 22.7' to 27° 46.7' and 97° 21.9'. The least depth at MLXW on this sheal is $5\frac{1}{2}$ ft. on line 66 to 67 D (red) at 27° 47.0' and 97° 22.5'.

Another development southeast of the above shoal is a part of the same shallow region and has least depths at MLXW in the following locations: 5 ft. between 18 & 19 G (green) and 20 and 21 G (green) at Lat. 27° 45.8' and Long. 97° 21.72', 4½ ft.between 31 and 32G (green) at Lat. 27° 45.57' and Long. 97° 21.5'.

The shoal development extending southeasterly from Indian Pt. (topo. signal "Cot") has twelve different loops of the 6 ft. depth curve. The outlying 5 ft. depths are located at 27° 50.48' and 97° 20.65', 27° 50.56' and 97° 20.93', 27° 50.64' and 97° 20.77', 27° 50.71' and 97° 20.91', and 27° 50.78' and 97° 20.9'.

Inside the breakwater, the dangers apply only to the smaller craft such as sailboats and small power boats. The foul area offshore easterly from triangulation station TANK is littered with scattered rocks, piles and remnants of wreckage. The entire strip of shallow water along the shore inside the breakwater is more or less foul with scattered fragments of wreckage, mooring blocks, etc.

There is a sunken hull of a 3 masted schooner about 75 ft. long located at Lat. 27 47.48' and Long. 97 23.41'. The depths of water over this wreck

is 2 ft. at MLCW. About 20 meters north of this wreck is an intake crib

protected by eight 10" piles bare 13 ft. at MLXW.

There is a barge aground at Lat. 27° 47.41' and Long. 97° 23.52' but it is of no danger as it is bare 21 ft. at MLXW and is very shallow water? The same applies to the group of piles about 70 meters E by S.

Channels:

The turning basin and the Corpus Christi Ship Channel from the basin out to the breakwater are maintained by the Nueces Co. Navigation District. Several 29 ft. depths were found in this portion of the channel on the center line (the project depth is 30 ft.). The channel extending eastward from the breakwater is maintained by the U. S. Engineers and had a minimum depth in Aug. 1934 of 30 ft. and a bottom width of 200 ft. (The project depth is 30 ft.). The day beacons on the south side of the channel are dolphins composed of 3 piles strapped together. The 10" pile inside the breakwater at Lat. 27° 48.56' and Long. 97° 23.45' lines up with this line of dolphins. The line of single piles north of the channel marks the U. S. Engineer's reference line and it is supposed to be 400 ft. north of the channel center line. These piles were placed approximately 2000 ft. apart. The single 12" pile at 270 48.60' and 970 23.49' is also a reference pile for the channel passing under the bridge. The lighted beacons with the exception of #29 are 275 ft. from the center line of the channel.

The only other channel shown on former charts of this area ran in a westerly direction thru the breakwater from a point just south of Corpus Christi Bn. (triangulation station RED). This channel is not maintained now but still has a minimum depth of 8 ft. thru the breakwater. The beacon is still maintained. Small boats now enter the area enclosed by the breakwater thru the above described opening, through the ship channel opening, or through one of the three following places: opening at Lat. 270 47.98', 27° 48.12', or 27° 48.28'.

It is recommended that the topographic locations of the five most westerly reference line piles, i.e. those located by hydrographic positions 46B, 50B, 52B, 55B, and 57B (green), be used. The two locations of these piles check reasonably well except in the case of 57B, which differs by approximately 20 meters.

Comparison with Previous Surveys:

In accordance with the "Notices to Mariners" of Oct. 17, 1934, the Corpus Christi Channel Light #29 was changed on Oct. 10, 1934, "to flashing white every 2 seconds, flash 0.4 second, eclipse 1.6 seconds, of 150 candlepower".

The 12' curve as shown on this sheet is considerably different from that on the last edition of chart 1286 in the area north of the ship channel. It has now moved down until it excludes only a small area on the north side of the channel from Bn. 27 eastward. In general the depth of the Bay is 1 to 2 ft. less than formerly.

The 6' curve in this area is in about the same position on the shoal southeast of the Nueces Bay Causeway. The numerous mounds outlined by the 6' curve southeast of Indian Pt. do not appear on the old chart.

In the area shown as a spoil bank S of the channel on previous charts we now have two definite locations of 6' curves, ie. that extending east from the breakwater and running fust to the north of topo. signal "Day" and the shoal at 270 48.45' and 970 21.4'. There is also a 6' spot on the spoil dumps at 27° 48.47' and 97° 20.50'.

The 6' curve along the shore south of the breakwater is practically

unchanged in location.

The shoal which showed formerly as 3' deep at 27° 45.6' and 97° 21.5' is now 41 ft. deep at MLKW. There appears to have been a general deepening of the water over the shoal spots south of the channel of from 2 to 2 ft. The location of these shoals is practically unchanged and the conformation of the 6' curve in the shoal water is nearly the same.

It is impossible to describe the changes in location of the 12 ft. curve south of the channel on this sheet. In general the strip about 1 mile wide south of the Corpus Christi Channel spoil dump is from one to 3 ft. shallower than shown on the last chart. The remainder of the area south of the channel shows a general decrease in depth of $\frac{1}{2}$ to $1\frac{1}{2}$ ft.

The old chart shows a small boat channel running to the breakwater from a point just south of Corpus Christi Bn. which was noted ashaving a depth of $5\frac{3}{4}$ ft. in June, 1925. This channel is no longer maintained but the least depth at present anywhere in this area is 8 ft.

The only change noted in shore line on this sheet was a slight change

in the shape of the spit extending southeast from Indian Pt.

There is a change to be noted in the terminal facilities at Corpus Christi which is not shown on this sheet. From the turning basin a channel 7500 ft. long has been dredged westerly to Avery Point. This channel has a depth of 30 ft. and a bottom width of 150 ft. A new basin has been constructed at Avery Pt. which is 800 ft. by 2000 ft. and has a depth of 30 ft.

Geographic Names:

There are three new geographic names on this sheet, viz. Indian Pt., Indian Reef, and Alta Vista Reef. They are all well established by local

Statistics for Sheet. Field No. 2:	3 403
Number of positions	- 1,401 - 11 160 /
Number of soundings	752 E
Statute miles of sounding lines	- 002.0

Men in Charge of Hydrography: J. L. Hale and W. R. Helm, Observers, had charge of the hydrographic parties which did the field work for this sheet.

Inspected and approved: Earl O. Heaton, Chief of Party, C.& G.S. Respectfully submitted, warren L. Moore Warren L. Moore, Surveyor

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Corpus Christi, Texas

						Dec	ember	18	, 193 4
DIRECTOR, U.S. COAST AND GEOR	ETIC	Sur	VEY:						•
The following determined description given below, and sh	obje wuld	cts a be c	re promine harted:	ent, c	an be			hed from so	
							Earl O	Heaton	Chief of Party.
							· · · · · · · · ·		Chief of Party.
ļ	POSITION			1	r	METHOD			
DESCRIPTION		LATI	TUDE	LONGITUDE			DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	۰	,	D.M. METERS	۰	•	D.P. METERS	DATUM		j .
TANK, elevested, steel	27	48	1122.7	97	23	1297.7	N.A. 1927	Triangu- lation	1286
(Aransas Compress Co., tank, 1931)									
TANK, elevated, steel (&Port tank, 1931)	27	48	1209.0	97	23	1301.1	*	**	*
STACK, white, concrete (ACentral Power & Light	27	47	989.4	97	23	1059.2	**	11	11
Co., stack, 1931)									
SIGM, PLAZA Hotel	27	47	1421.4	97	23	1281.5	ŧī	**	**
(APlaza Hotel sign, 1951)								
TOWER, Breakers Hotel	27	49	548.0	97	23	419.0	**	11	**
Breakers Hotel, 1934)									
STACK, Spohn Hospital (ASteel Stack, Spohn Hospital, 1934)	27	46	1040.2	97	23	1069.6	**	*	**
CUPOLA (O Man) Cupola of stucco house)	27	45	1131	97	22	1120	*	Topo- graphy	•
	İ		re visibl	e fr	com_1	the water			
Checke	d an	ıd v	rified b	y:	w	erren o	P. 7	Coore	
	<u>↓</u>		<u> </u>						

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. permanent to chart. U.S. GOVERNMENT PRINTING OFFICE: 1984 25379

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

AIDS TO TAYIGATIONS LANDMARKS FOR CHARTS

Corpus Christi, Texas

						Decen	ber 18		, 193 ⁴
DIRECTOR, U.S. COAST AND GEO	DETIC	SURV	ÆY:						
The following determined	obje	ects a	re promin	ent,	can b	e readily d		$\Lambda \cap A$	/ et a
HANNEL BEACONS: FR. "14" (41954) 27 48 1232.4 97 19 577.6									
	Ĭ.								Chief of Party.
				POSI	TION				
DESCRIPTION		LATI	TUDE		LONG	SITUDE		METHOD OF DETER-	CHARTS AFFECTED
	ļ	•		•	1	D.P. METERS	DATUM	MINATION	
CORPUS CHRISTI CHANNEL BEACONS:									
	27	48	1232.4	97	19	577.6			
P "23" (A1934)	27	48	1065.4	97	19	576,6	**	11	н
F "25" (A1934)	27	48	1050.8	97	20	1058.4	#	*	*
F "27" (A1934)	27	48	1035.6	97	21	1544.0	*	**	**
F1W"29" (A1934)	27	48	1036.4	97	23	461.5	*	***	*
BEACON, FR (ACorpus Christi Bn.,	27	47	716.1	97	22	1122.2	*	**	**
1934)							,		
BEACON, PR (4Corpus Christi Break-	27	48	8.5	97	23	285.8	**	**	**
water Bn., 1934)									
See additional	aid	s on	list su	bmi1	ted	to Washi	gton o	ffice on	
October 16, 19	54.								
	C	heck	ed and v	erii	led.	by: 70	arren	1. 71	Poore
									,
			<u> </u>					<u> </u>	

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. permanent to chart. U.S. COVERNMENT PRINTING OFFICE: 1984 25379

FIELD RECORDS SECTION Verification Report on H-5612

July 26, 1935.

1. The records conform to requirements.

2. The usual depth agrees are complete within the limits of the syrvey, with the following exceptions. The Off. curve is broken inshore, in the youal manner. The 6,12,18, and 30 ff. curves in the Corpus Christi Channel, at the entrance to the turning basin, and in the basin, are incomplete as governed by the area sounded.

3. The field plotting was complete, with the exception of 2 courses which were omitted, in the aforementioned channel entrance to the basin. The verifier has plotted these courses since they affect the depth curves.

4. Additional work by the verifier consisted of replotting 6 positions, respecting 7 courses, and replotting 1 pile to check T-6230 (1934), left 27°-18.7', long. 97°-23.2'.

5. The junction with H-5694 (1934), which makes the complete overlap with this sheet is generally good on the north, south, and east. The inshere courses at the northwest, and southwest, show conflict, which bears out the statement in the descriptive report, that difficulty was experienced in sounding with the skiff.

6. Remarks: Generally speaking, the smooth sheet plothing was well done. The entire sheet was plothed in half teet, which made it convenient for the verifier in handling the depth curvesover this flat area. Capt. E. P. Ellis was consulted in the modification of these

Curves.
With the boat sheet as reference, a dashed yellow line is used to outline a reef area at lat. 27°-48.4, long. 97°-23.3.
The acceptable companies was made with T-6230. T-4873.

Topographic comparison was made with T-6230, T-4873, and T-4904, (all 1934), also with photocomp T-5365 and T-5367 (both 1934).

Respectfully submitted J. S. Evans

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .56.12

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1481
Number of positions checked	.5%.
Number of positions revised	6
Number of soundings recorded	11,168
Number of soundings revised	None
Number of signals erroneously	
plotted or transferred	None

Date: July 26, 1935

Verification by T.S. Evans
Inked by Miss H.V. Bennett
Review by

Time: 18 Da. - 5² Hrs. 2 Da. - 1 Hr Time:

To:	H.17	Strong
Froi	n: - 64	F.M.

Date. Feb. 1, 1935

GEOGRAPHIC NAMES

Survey No	H 5612
Chart No.	1286
Diagram No	1286

- *, Approved by the Division of Geographic Names, Department of Interior.
- \rlap/c , Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Indian Point		Same		
	Indian meef	lak later	77		
V	Nueces Bay	Same			
,	Corpus Christi Bay	lak " later.		· ·	:
· /	Corpus Christi	*			
	Alta Vista Reef	Inf after verified	Same		
	Alta Vista	Same			
	Rincon Point			·	
	Corpus Christi Channel	, ,,			
<u> </u>					
			1		
		•			
<u> 4 </u>		ASSESSION MANCE			
•		A DESCRIPTION HAMES			
		Mynds		•	· (M
					•

April 19, 1935

F.E

Division of Hydrography and Topography:

✓ Division of Charts: Attention Mr. E. P. Ellis

Tide Reducers are approved in 8 volumes of sounding records for

HYDROGRAPHIC SHEET 5612

Locality Western Part, Corpus Christi Bay, Texas

Chief of Party: Earl O. Heaton in 1934 Plane of reference is mean low water, reading 2.5 ft. on tide staff at Corpus Christi 4.5 ft. below B.W. 1

Height of mean high water above plane of reference is 0.3 foot.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5612 (1934) - FIELD NO. 2

Corpus Christi Bay, Western Part, Texas
Surveyed in March - July, 1934
Instructions dated November 5, 1932 (E. C. Heaton)
Supplemental Instructions dated November 16, 1933, and March 5, 1934
Director's Letter of April 18, 1934

Pole and Hand Lead Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - E. O. Heaton.
Surveyed by - J. L. Hale, W. R. Helm.
Protracted by - W. L. Moore.
Soundings penciled by - W. L. Moore.
Inked by - H. V. Bennett.
Verified by - H. Evans.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that the projection figures on the smooth sheet were not oriented properly. They were not changed in the office.

The Descriptive Report is comprehensive and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

This is an excellent survey and fully complies with the instructions for the project.

3. Shoreline.

The shoreline and topographic aignals were taken from graphic control sheets T-6230 (1934), T-4873 (1934) and T-4904 (1934).

4. Sounding Line Crossings.

The difficulty experienced in maintaining a uniform speed with the sounding launch did not prevent good results being obtained. The sounding line crossings are excellent and adjacent parallel lines are also in good agreement.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn, including portions of low water curve.

6. Junctions with Contemporary Surveys.

The junction on the north, east and south with H-5694 (1934) is satisfactory.

7. Comparison with Prior Surveys.

H-958 (1868).

This survey, on a scale of 1-20,000, covers the entire area of the present survey. There have been many changes, both natural and artificial, since the period of this survey. The dredging of Corpus Christi Channel with the formation of a spoil bank on the south side as well as the construction of the breakwater have influenced some of these changes, however most of the area appears to be subject to considerable natural change as well. The large flat areas on both sides of the channel in Corpus Christi Bay have shoeled up from 1 to 3 feet and the 12 foot curve has moved out several miles in the area north of lat. 27° 47'. There is still a general shoaling extending in a southeasterly direction from the breakwater but the depths over the shoal spots are now from to 2 feet deeper. Because of these numerous changes, H-958 (1868) should be superseded by the present survey which covers the area adequately and is on a larger scale and in more detail. H-958 (1868) is the only prior survey by this Bureau covering this area.

8. Comperison with Chart No. 1286 (Corrected to February 12, 1935).

a. Hydrography.

Within the area of the present survey, the chart is based on the survey discussed in the foregoing paragraph except for the outline of the Corpus Christi Channel and the spoil bank immediately south of it which were charted from U. S. Engineers' Blueprints No. 20,688 (1925), No. 20,689 (1925), and No. 24,259 (1930-1). The spoil bank should now be charted as shown on the present survey.

b. Aids to Navigation.

The lighted beacons east of the breakwater were located by triangulation on the present survey and are in substantial agreement with the charted positions which originate with Engineers' blueprints. The present locations are considered more accurate and should be accepted for charting. The day beacons, which are dolphins, on the south side of the channel and the line of single piles on the north side of the channel which were located on the present survey are not shown on the chart.

The range beacons on the north and south side of Corpus Christi Turning Basin were located by topography and are in fairly close agreement with the charted positions. The new locations correctly mark the ranges.

There are no floating aids to navigation in this area.

c. Controlling Depths.

- (1) Corpus Christi Channel extending eastward from the breakwater is maintained by the U. S. Engineers and for this reason was not developed on the present survey. The controlling depth in this channel is charted by a hand correction to agree with letters received monthly from the Engineers. The present charted depth is 27 feet from chart letter No. 796 (1935).
- (2) The turning basin and the channel from the basin out to the breakwater are maintained by the Nucces Co. Navigation District. The present charted controlling depth in the basin and in this channel is 28 feet (chart letter No. 136, 1935). This depth is consistent with the soundings of the present survey. The dredged channel with a controlling depth of 28 feet leading westward from the west end of the turning basin (also charted from letter No. 136, 1935) falls beyond the limits of the present survey.
- (3) A channel, with a depth of 5-3/4 feet, is charted in approximate lat. 27° 47.4° and leading westward from Corpus Christi Bn. The 5-3/4 foot charted depth originates with chart letter No. 345/17 (1923). The present survey shows a minimum depth of 8 feet in this channel, however the field party reports that the channel is no longer maintained. (See page 3, descriptive report). For this reason the channel limits should be discontinued on the chart.

9. Field Plotting.

The prescribed amount of field plotting was well done.

10. Additional Field Work Recommended.

This survey is complete except that soundings off the end of the wharf in lat. 27° 47.4', long. 97° 23.5' (municipal wharf) would have been desirable. However, no additional work is recommended at this time.

H=5612(1934)-4

11. Note to Compiler.

The compiler's attention is called to the last paragraph in par. 8c of this review. The triangulation position of the beacon on the breakwater (topo signal Break) is now available, however it differs only about 3 meters from the topographic location.

12. Superseding Old Surveys.

Within the area covered the present survey supersedes the following survey for charting purposes:

H-958 (1868) in part.

13. Reviewed by - R. L. Johnston, October 14, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, A. Green. Chief, Section of Field Records.

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

applied to chart 523 apr. 1941 S.B. Maizo g.H. s. N. S. Dec 1935 John P. Wen applied to Chart 524